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DEVELOPMENT IMPACT STATEMENT

FOR

EAST FRAMINGHAM SEWER IMPROVEMENTS PROJECT
WASTEWATER MANAGEMENT FACILITY

67 A STREET

FRAMINGHAM, MA 01701

DATED: AUGUST 2009

Applicant:	Town of Framingham Department of Public Works 100 Western Avenue Framingham, MA 01702
Engineer:	SEA Consultants, Inc. 5 Whittier Street Framingham, MA 01701
Owner:	Town of Framingham 150 Concord Street Framingham, MA 01702

1.0 Description of the Project

The East Framingham Sewer Improvements Project (EFSIP) is intended to reconfigure the sewer system through much of east Framingham. Overall, the project includes the installation of approximately 17,000 feet of gravity interceptor sewer and 6,000 feet of sewer force main. The new sewer pipe replaces an outdated and improperly designed system that has outlived it useful life. The old system has resulted in multiple sanitary sewer overflows (SSOs) and results in the generation of sulfides that are corrosive to downstream piping. The SSOs have resulted in direct discharge of wastewater to the Sudbury River and Lake Cochituate. Piping will be installed on Arthur Street, Grant Street, Grant Street Extension, Gorham Road, Concord Street, A Street, and Watson Place, and School Street. In addition piping will be installed on the former rail right-of-way. This right-of-way will be completed to allow sewer department truck access to the manholes for maintenance. This construction will also allow the right-of-way to serve as the Cochituate Rail Trail.

Another significant feature of EFSIP is the construction of the Wastewater Management Facility (WWMF) at 67 A Street. This facility will serve to convey an average daily flow of 2.6 million gallons per day up to a peak flow of 13 million gallons per day of wastewater from northern Framingham to the Massachusetts Water Resources Authority (MWRA) discharge point at Arthur Street. This facility is critical to support the Department of Public Works (DPW) operations in North Framingham. This facility will have a footprint of approximately 9,600 square feet and will be situated on A Street as indicated in the attached site plans. The construction of the Wastewater Management Facility and the EFSIP gravity sanitary sewer and force main improvements will allow for the elimination of the existing Saxonville, Speen Street, Arsenal Road, and Valentine Street Pump Stations.

The EFSIP is identified in the Comprehensive Wastewater Management Plan and the Administrative Consent Order (ACO) issued from DEP to the Town of Framingham. The ACO outlines specific deadlines and penalties. Finally, the upgrades proposed in EFSIP are necessary to reduce sulfides as mandated in the Settlement Agreement issued by MWRA.

DPW is in the process of submitting an application and supporting plans and specifications to the Massachusetts Department of Environmental Protection in August 2009 to be considered for funding eligibility under the American Recovery and Reinvestment Act.

The proposed project schedule is as follows:

Design Completion	November 2009
Bidding and Contract Award	November 2009 – February 2010
Construction Start	February 2010
Construction Completion	December 2013

2.0 Traffic Impact Assessment

The Wastewater Management Facility will be unmanned and its impacts to A Street and Concord Street average and peak daily traffic rates will be negligible.

The anticipated traffic generation at the site will consist of the following:

1. Average Daily Traffic - 4 visits per day (i.e., 8 trips per day, 4 in and 4 out) by DPW staff for operation and maintenance between the hours of 7:00 AM and 3:00 PM. Therefore, no trips will occur during the evening peak hour, which typically occurs during one hour between 4 and 6 PM.

2. Equipment pre-positioning and equipment staging during the winter for snow removal - 8 vehicles for 15 days per year.

3. Chemicals for odor control system - one delivery every two months during the day.

4. Occasional delivery of equipment, parts, and supplies.

It is estimated that the proposed use will add 10 new vehicles per day to A Street. It is anticipated that all 10 of these trips will travel to/from Concord Street. The resultant number of trips added to the street network is an average of 1.25 trips per hour or 0.02 trips per minute.

It is anticipated that the facility will be constructed and operational by 2013.

3.0 Environmental Impact Assessment

3.1 Air Quality (Noise, Dust, Fumes, Noxious Gases, Radiation)

The project specifications will limit construction activities to working hours to minimize off-site impacts from noise during construction. Once the facility is complete, since the facility must be fully operational during emergency conditions with a loss of normal electrical service, standby generators will be provided on the site to provide auxiliary power. The generators will be designed with noise attenuating features to mitigate off-site noise impacts during their operation. Dust control requirements during construction will be included in the project specifications. The facility's wet well that stores the wastewater before it is pumped will be fully enclosed and equipped with an odor control system to mitigate impacts from odors.

3.2 Water Quality/Flooding, Erosion, and Sedimentation/Surface Runoff

The Wastewater Management Facility stormwater management design incorporates Best Management Practices to capture sediments and oil and grease from surface runoff. This includes a piped stormwater conveyance system with catch basins with four foot sumps to collect and store sediments from the runoff from the paved surfaces of the site. Catch basin discharge outlet pipes will be equipped with hoods to capture oil and grease. In addition, an oil/water separator will be installed at the downstream portion of the stormwater collection system prior to discharge to the stormwater sediment forebay and water quality swale to capture oil and grease for subsequent removal. Direct runoff from the perimeter of the site will be conveyed by a vegetated swale to the sediment forebay and water quality swale containing a series of check dams prior to discharge from the site.

As noted above, the Wastewater Management Facility site plan includes the design of a stormwater sediment forebay and water quality swale with check dams to collect the site surface runoff and mitigate the rate of flow from the site to less than or equal to predevelopment conditions prior to discharge to the existing wetlands located along the northern perimeter of the site.

Existing natural features of the site, such as tees and vegetated buffers, will be preserved as much as possible during construction. An erosion control plan will be included with the project's Notice of Intent filing with the Conservation Commission, and will include methods and specifications to minimize impacts of erosion and sedimentation on-site and off-site during construction. Post construction site restoration will include loaming and seeding of landscaped ground surfaces and planting of new vegetation along the perimeter of the site.

3.3 Groundwater

There are no wells proposed to serve the Wastewater Management Facility. During construction, temporary dewatering of the building foundation excavation will be required and will be performed using standard construction methods.

3.4 Natural Features

The site design includes preserving mature trees and other natural features along the perimeter of the site to the extent practicable to provide screening of the site. A landscaping plan is included with the site plan that includes a planting schedule of the number and species of plantings that will be provided for screening and buffering.

3.5 Temperature and Wind Conditions

The Wastewater Management Facility will be constructed in accordance with the Town's zoning by-laws and applicable Massachusetts Building Code requirements and will not create any adverse temperature or wind velocity impacts.

3.6 Hazardous Materials

There will be no generation of hazardous materials at the site.

3.7 Lighting

The site plan lighting will be designed to mitigate off-site impacts from exterior building and parking light fixtures. A photometric lighting plan will be submitted with the site plan to demonstrate conformance with the zoning by-laws.

3.8 Water Demand

The Wastewater Management Facility will be serviced by the Town's municipal water system. Since the facility will be un-manned, there will be nominal water use by DPW staff during routine operation and maintenance visits to the facility.

3.9 Wastewater Disposal

The Wastewater Management Facility will be serviced by the Town's municipal sanitary sewer system. Since the facility will be un-manned, there will be nominal discharge of wastewater to the system during daily operation and maintenance visits by DPW staff.

3.10 Solid Waste Disposal

An on-site dumpster will be provided. Solid waste generated at the site will be collected and disposed of by the Department of Public Works.

in increased demand and cost for public services. EFSIP will allow for the decommissioning and elimination of the Saxonville, Speen Street, Arsenal Road, and Valentine Street wastewater substantial cost savings to the Town in both the short term once the project is completed and over the long term (i.e., 5 years and greater).

Where possible, the architectural, heating, ventilation, air conditioning, plumbing systems and site design of the Wastewater Management Facility will incorporate Leadership in Energy and Environmental Design (LEED) features. In the United States, LEED certification is the recognized standard for measuring building sustainability, and promotes design and construction practices that increase energy efficiency and water conservation while reducing the environmental impacts of the building.

The Wastewater Management Facility will be replacing the existing Saxonville Pump Station which is located two blocks away from A Street on Watson Place. Negative impacts to existing property values in Saxonville are not anticipated.

5.0 Community Impact Assessment

The architectural design of the Wastewater Management Facility will incorporate features that are similar to the building styles in the Saxonville neighborhood. The site plan documents will include architectural renderings that depict the building's exterior walls, door and window style, and roof construction. The construction will consist of a one-story brick and masonry building with a combination of mid-sloped metal roofing at the front side of the facility and low sloped metal roofing at the rear of the facility with a below grade pump and supporting mechanical equipment rooms and a wet well for wastewater storage constructed of reinforced concrete.

During the planning stage of EFSIP, an Environmental Notification Form (ENF) was submitted to the Executive Office of Energy and Environmental Affairs as required by the Massachusetts Environmental Policy Act (MEPA). During that process, it was determined by contact with the Massachusetts Historical Commission that the A Street site did not have any known historic or archaeological resources on-site or in its vicinity.

use at 1 parking space per Wastewater Management Facility will be designed in accordance with is 9,600 square feet which requires 12 parking spaces. The site has been designed with 12 off-street parking spaces, which includes 1 handicapped parking space. Approximately half of the parking spaces will be located in the front of the site to provide parking for DPW staff and visitors to the facility. Landscaping will be provided to screen the parking areas to mitigate visual impacts. The remainder of the parking spaces will be located at the rear of the facility in the northwest corner of the site. The facility will be designed to allow proper access to DPW vehicles, delivery trucks, and emergency vehicles.